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FROM: Winston Hsu, PATENT AGENT, REG. NO.: 41,526

**SERIAL NO.: 10/605,679** 

ATTORNEY DOCKET NO.: NTCP0024USA

SUBJECT: RESPONSE TO OFFICE ACTION MAILED

ON 08/19/2004

**TOTAL PAGES: 9 PAGES (INCLUDING COVER PAGE)** 

Winston Hsu 2004/09/09

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PTO/SB/97 (08-03)
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| APPLICATION NUMBER: 10/605,679 PAPERS INCLUDED: (1) Transmittal Form                            | 1 BACE                         |
|   | 1 PAGE                         |
| (2) Fee Transmittal   | 1 PAGE                         |
| (3) Response to Office Action   | 5 PAGES                        |

This collection of information is required by 37 CFR 1.8. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|---|--|-------------------------------------|-----------------------------|---|-------------|-------------|-----------|--|--|
|   |  |                                     |                             | Application Number 10/605,679                       |             |             |           |  |  |
| TRANSMITTAL   |  | Filing Date                         | 10/17/2                     | 10/17/2003  |             |             |           |  |  |
|   | FORM                                       |                                     | First Named Inventor        | YHNan   | YI-Nan Chen |             |           |  |  |
| (to be used for all correspondence after initial filing)  |  | กินิกฐ)                             | Art Unit                    | 2818  | 2818        |             |           |  |  |
|   |  |                                     | Examiner Name               | NHU. D  | NHU, DAVID  |             |           |  |  |
| Total Number of Pages In This Submission 7  |  |                                     | Attorney Docket Number      | +   | NTCP0024USA |             |           |  |  |
|   |  |                                     | ENCI                        | OSURES (Check all tha                               | t applyl    | -           |           |  |  |
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| Fee Transi  | mittel Fo                                  | omi                                 | 닏 '                         | Drawing(s)  |             |             |           | ogy Center (TC)  |  |
| Fee   | e Attach                                   | ed                                  | ∐                           | icensing-related Papers                             | ł           |             |           | mmunication to Board<br>and Interferences  |  |
| Amendmei  | m/Reniv                                    | ,                                   | <b> </b> П ,                | Petition  |             |             | opeal Co  | mmunication to TC<br>tice, Brief, Reply Brief)   |  |
|   |  |                                     |                             | Petition to Convert to a                            | ĺ           |             |           |  |  |
| I H An  | er Final                                   |                                     | Provisional Application Pro |   |             |             |           | Information  |  |
|   |  |                                     |                             | Change of Correspondence Address                    |             |             | atus Lett |  |  |
| Extension   | Extension of Time Request                  |                                     |                             |   |             |             | entify be | osure(s) (please<br>low):  |  |
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| Information   | n Disclo                                   | sure Statement                      |                             | CD, Number of CD(s)                                 |             |             |           |  |  |
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| Response  | Response to Missing Parts/                 |                                     |                             |   |             |             |           |  |  |
| Incomplete  | Applica                                    | ation                               |                             |   |             |             |           |  |  |
|   |  | to Missing Parts<br>FR 1.52 or 1.53 |                             |   |             |             |           |  |  |
|   | 164 57 6                                   | . 1. 1.52 Gr 1.55                   |                             |   |             |             |           |  |  |
|   |  | 010110                              | 1105.0                      | 5 155115 11T 1T 1551                                |             |             | _         |  |  |
| Firm  |  |                                     |                             | F APPLICANT, ATTORN                                 | EY, O       | RAGEN       | <u> </u>  |  |  |
| or<br>Individual name   | ,    |                                     |                             |   |             |             |           |  |  |
| Signature   |  | بسنز                                | 11                          | moton 15  | 1/2         | 11          |           |  |  |
| Date  |  |                                     | 91                          | 9/2001  |             |             |           |  |  |
|   | 1/1/2004                                   |                                     |                             |   |             |             |           |  |  |
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| Signature   |  |                                     |                             |   |             |             | Date      |  |  |

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|---|------------|-----------------------------|---|-----------------------------|--|-------------|--|--|--|
|   |            | A 1-1- 1816                 |   |                             |  |             |  |  |  |
| FEE TRANSMITT   | 4L         | Application Number          |   |                             | 10/605,679   |             |  |  |  |
| for FY 2004   |            | Filing Date 1               |   |                             | 10/17/2003   |             |  |  |  |
| Effective 10/01/2003. Petent fees are subject to annual revis                                     |            | First Named Inventor   Yi-  |   |                             | Yi-Nan Chen  | /i-Nan Chen |  |  |  |
|   |            | Examiner Name NH            |   |                             | NHU, DAVID   |             |  |  |  |
| Applicant claims small entity status. See 37 CFR 1.27   |            | Art U                       | nit   |                             | 2818   |             |  |  |  |
| TOTAL AMOUNT OF PAYMENT (\$) 0.00   |            | Atton                       | NTCP0024USA   |                             |  |             |  |  |  |
| METHOD OF PAYMENT (check all that apply)  |            | FEE CALCULATION (continued) |   |                             |  |             |  |  |  |
| Check Credit card Money Other Nor   | 18 3. A    | 3. ADDITIONAL FEES          |   |                             |  |             |  |  |  |
| Deposit Account:  |            | Large Entity Small Entity   |   |                             |  |             |  |  |  |
| Deposit<br>Account 50-3105  | Fee<br>Cod | Fee<br>e (\$)               |   | Fee<br>(\$)                 | Fee Description  | Fee Paid    |  |  |  |
| Number  | 105        | 1 130                       | 2051  | 65 Sur                      | charge - tate filing fee or oath   |             |  |  |  |
| Deposit<br>Account North America Intellectual Property Corp.                                      | 105        | 2 50                        | 50 2052 25 Surcharge - late provisional filing fee or cover sheet |                             |  |             |  |  |  |
| Name The Director is authorized to: (check all that apply)  | 105        | 3 130                       | 1053  |                             | -English specification   |             |  |  |  |
| Charge fee(s) indicated below Credit any overpayment  | , I        | 2,520                       | 1   | •                           | filing a request for ex parte reexamination                              |             |  |  |  |
| Charge any additional fee(a) or any underpayment of fee(s)  | 180-       | 920°                        | 1804  | 920* Rec<br>Exa             | questing publication of SIR prior to<br>miner action                     |             |  |  |  |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 180        | 1805 1,840° 180S 1,84       |   |                             | questing publication of SIR after  |             |  |  |  |
| FEE CALCULATION   | 125        | 110                         | 2251  |                             | aminer action<br>consion for reply within first month                    |             |  |  |  |
| 1. BASIC FILING FEE   | 125        | 2 420                       | 2252  |                             | ension for reply within second month                                     |             |  |  |  |
| Large Entity Smell Entity   | 125        | 950                         | 2253  | 475 Ext                     | lension for reply within third month                                     |             |  |  |  |
| Fee Fee Fee Fee Description Fee Paid Code (5)   | 125        | 1,480                       | 2254  | 740 Ext                     | ension for reply within fourth month                                     |             |  |  |  |
| 1001 770 2001 385 Utility filing fee  | 11         | 2,010                       |   | 1,005 Ext                   | ension for reply within fifth month                                      |             |  |  |  |
| 1002 340 2002 170 Design filing fee   | 140        |                             | 2401  |                             | doe of Appeal  |             |  |  |  |
| 1003 530 2003 265 Plant filing fee<br>1004 770 2004 385 Relsaue filing fee                        | 140        |                             | 2402  |                             | ng a brief in support of an appeal<br>quest for oral hearing             | -           |  |  |  |
| 1005 150 2005 80 Provisional filing fee   | 4 I        | 1,510                       | ı   |                             | ition to institute a public use proceeding                               |             |  |  |  |
| SUBTOTAL (1) (\$) 0.00  | 145        |                             | 2452  |                             | ition to revive - unavoidable  |             |  |  |  |
|   | 1453       | 1,330                       | 2453  | 665 Pet                     | ition to revive - unintentional  |             |  |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSL  |            | 1,330                       | 2501  | 665 Util                    | lty Issue fee (or reissue)   |             |  |  |  |
| Total Claims  | 71         |                             | 2502  |                             | sign issue fee   |             |  |  |  |
| Independent Claims X = X  | 1503       |                             | 2503<br>1460  |                             | int issue fee<br>litions to the Commissioner                             |             |  |  |  |
| Multiple Dependent  | 1807       |                             | 1807  |                             | cessing fee under 37 CFR 1,17(g)   |             |  |  |  |
| Large Entity   Small Entity   | 1806       |                             | 1806  |                             | mission of Information Disclosure Strnt                                  |             |  |  |  |
| Fee Fee Fee Fee Fee Description Code (\$)   | 8021       | 40                          | 8021  | ₄∩ Rec                      | ording each patent assignment per  |             |  |  |  |
| 1202 18 2202 9 Claims in excess of 20   | 1809       | 770                         | 2809  | brot                        | perty (times number of properties) ng a submission efter final rejection |             |  |  |  |
| 1201 86 2201 43 Independent claims in excess of 3   |            |                             |   | (37                         | CFR 1.129(a))  |             |  |  |  |
| 1203 290 2203 145 Multiple dependent claim, if not paid   | 1810       | 770                         | 2810  |                             | each additional invention to be mined (37 CFR 1.129(b))                  |             |  |  |  |
| 1204 86 2204 43 ** Relsaue Independent claims over original patent                                | 180        | 770                         | 2801  |                             | quest for Continued Examination (RCE)                                    |             |  |  |  |
| 1205 18 2205 9 ** Relssue claims in excess of 20 and over original patent                         | 1802       | 900                         | 1802  | 900 Re                      | quest for expedited examination  |             |  |  |  |
|   | Othe       | r fee (sp                   | ecify)  | SI S                        | design application   |             |  |  |  |
| SUBTOTAL (2) ((\$) U.UU  **or number previously paid, if greater, For Reissues, see above         | ing Fee Pa | aid SUBTOTAL (3) (\$) 0.00  |   |                             |  |             |  |  |  |
| SUBMITTED BY  |            |                             |   |                             | (Complete (# applicable))  | <del></del> |  |  |  |
| Name (Prinitype) Winston Hsu  |            | Registra                    |   | 41,528                      | Telephone 886289237350   |             |  |  |  |
| Signature   | 7          | (Attorney/                  | Agent   |                             | 7445/1011 000209237330   | 2 5000      |  |  |  |

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### **PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE CENTRAL FAX CENTER

SEP 0 9 2004

5 Applicant: Yi-Nan Chen

Examiner:

Nhu, David

Filing Date:

10/17/2003

Art Unit:

2818

App. No.:

10/605,679

Docket No.:

NTCP0024USA

Title:

METHOD OF FABRICATING A BOTTLE SHAPED DEEP TRENCH

10

FOR TRENCH CAPACITOR DRAM DEVICES

To:

Commissioners for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

15

Subject:

Response to Office action mailed 08/19/2004

20 Dear Sir or Madame:

#### INTRODUCTORY COMMENTS

In response to the Office action mailed 08/19/2004, the above-identified application is to be amended as indicated in the following section. Consideration of all 25 amendments is politely requested.